

Title (en)

MOLD CLAMPING APPARATUS PROVIDED WITH FORCEFUL MOLD OPENING MECHANISM

Title (de)

FORMWERKZEUGKLEMMVORRICHTUNG MIT ZWANGSÖFFNUNGSMECHANISMUS

Title (fr)

APPAREIL DE SERRAGE DE MOULE DOTÉ D'UN MÉCANISME D'OUVERTURE DE MOULE PUISSANT

Publication

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Application

EP 20191779 A 20200819

Priority

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Abstract (en)

In a mold clamping apparatus (10) according to the present invention, a mold clamping mechanism (13) is provided with at least one half nut (17), and at least one tie bar (15) is provided with a circumferential groove (27) to be meshed with the at least one half nut 17). At least one forceful mold opening mechanism (30) that opens molds (22, 23) at an initial stage of mold opening is provided across a movable platen (14) and the mold clamping mechanism (13). The at least one forceful mold opening mechanism (30) is set so as to have greater axial force and shorter stroke than those of a mold opening and closing mechanism (16). A control unit (19) controls opening and closing of the half nut (17), controls the at least one forceful mold opening mechanism (30), and also controls the position of the half nut (17) in such a way that the half nut (17) is synchronized with the circumferential groove (27) by the at least one forceful mold opening mechanism (30).

IPC 8 full level

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Citation (applicant)

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Citation (search report)

- [A] US 5863474 A 19990126 - ITO KATSUO [JP], et al
- [A] WO 0147686 A1 20010705 - UBE MACHINERY CORP LTD [JP], et al
- [A] US 2018001378 A1 20180104 - MURATA ATSUSHI [JP], et al
- [AD] JP 4883642 B2 20120222

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